

REPLACED
BY 34 AND 35

WHAT IS CLAIMED IS:

1 1. A article attachment system for a vehicle, comprising:
2 an elongated rail member adapted to attach to the vehicle;
3 the rail member defining at least one partially enclosed space having at
4 least one slide interface and a plurality of projections
5 a bracket operably engaging the elongated rail member and adapted
6 for mounting at least one article,
7 a positioning device operably engaging the bracket and having at least
8 one extension adapted to move between an engaged position adapted for securing
9 the article to the elongated rail member and a released position adapted for moving
10 the article relative to the elongated rail member.

1 2. The article attachment system of Claim 1, wherein the elongated rail
2 member is oriented longitudinally within the vehicle.

1 3. The article attachment system of Claim 1, wherein the elongated rail
2 member is oriented laterally within the vehicle.

1 4. The article attachment system of Claim 1, wherein the elongated rail
2 member is adapted to attach to an external portion of the vehicle.

1 5. The article attachment system of Claim 1, wherein the elongated rail
2 member is adapted to attach to an interior portion of the vehicle.

1 6. The article attachment system of Claim 1, wherein the elongated rail
2 member extends to a forward position adapted to allow the article to nest with an
3 instrument panel in the vehicle.

1 7. The article attachment system of Claim 1, wherein the elongated rail
2 member is at least one rail segment adapted to be selectively coupled and
3 uncoupled to another rail segment.

1 8. The article attachment system of Claim 1, wherein the elongated rail
2 member and bracket are configured to vertically restrain the article.

1 9. The article attachment system of Claim 1, wherein the elongated rail
2 member includes a fixed conductor strip adapted to deliver electrical power to the
3 article.

1 10. The article attachment system of Claim 9, wherein the conductor strip
2 is coupled to the rail member by a carrier having at least one tolerance adjusting
3 device.

1 11. The article attachment system of Claim 9, wherein the bracket includes
2 a contact biased for sliding engagement with the conductor strip.

1 12. The article attachment system of Claim 1, wherein the bracket further
2 comprises at least one glide operably engaging the slide interface.

1 13. The article attachment system of Claim 12, wherein the glide is a low-
2 friction, high-lubricity material.

1 14. The article attachment system of Claim 1, wherein the bracket further
2 comprises runners operable engaging the slide interface.

1 15. The article attachment system of Claim 1, wherein the slide interface
2 further comprises a lateral positioning device.

1 16. The article attachment system of Claim 1, further comprising a trim
2 piece coupled to the elongated rail member.

1 17. The article attachment system of Claim 1, wherein the elongated rail
2 member is adapted to removably receive the article.

1 18. The article attachment system of Claim 1, wherein the article is one of
2 a center console, a storage bin, a compartment, a cargo management device, a
3 holder, an article mounting bracket, a storage rack, a child safety seat, a jump seat,
4 a storage platform, a table, a recreational item, or a sporting good.

1 19. The article attachment system of Claim 1, wherein the positioning
2 device is biased in a self-correcting direction.

1 20. The article attachment system of Claim 1, wherein the positioning
2 device includes an actuator capable of remote actuation and operable to move the
3 extension between the engaged position and the released position.

1 21. An article attachment system for a vehicle interior, comprising:
2 an elongated rail member coupled to a floor portion of the vehicle
3 interior;
4 the elongated rail member defining at least one partially concealed
5 channel having a slide interface;
6 a bracket adapted to couple to an article, the bracket having at least
7 one non-rotational glide operably engaging the slide interface for longitudinal
8 movement along the elongated rail member; and
9 a positioning device coupled to the bracket for selectively securing the
10 bracket at one of a plurality of locations along the elongated rail member.

1 22. The article attachment system of Claim 21, wherein the elongated rail
2 member includes a plurality of positioning elements.

1 23. The article attachment system of Claim 21, wherein the positioning
2 device includes an actuator adapted for remote actuation from the article.

1 24. The article attachment system of Claim 21, wherein the elongated rail
2 member includes at least one lateral extension portion.

1 25. The article attachment system of Claim 21, wherein the elongated rail
2 member is integrally formed with the floor portion.

1 26. The article attachment system of Claim 21, wherein the elongated rail
2 member includes an end piece adapted to limit the position of the article.

1 27. The article attachment system of Claim 21, wherein the positioning
2 device includes at least one locking member operably engaging the actuator for
3 extension and retraction in a lateral direction.

1 28. The article attachment system of Claim 27, wherein the bracket and the
2 positioning device coact through a biasing device.

1 29. The article attachment system of Claim 28, wherein the biasing device
2 is a spring.

1 30. The article attachment system of Claim 29, wherein the biasing device
2 provides a self-correcting interaction between the locking member and the elongated
3 rail member.

1 31. The article attachment system of Claim 21, wherein the glide is
2 configured for coupling to the bracket only in a single orientation.

1 32. A kit for an article attachment system, comprising:
2 a rail member adapted for attachment to a vehicle, the rail defining at
3 least one partially enclosed space having at least one surface adapted for slideable
4 engagement;
5 a bracket member adapted to couple to an article and adapted to
6 slideably engage the surface;
7 a positioning device adapted to releasably secure the article in any one
8 of a plurality of locations on the rail member; and
9 an actuator adapted to move the positioning device between an
10 engaged position where movement of the article is prevented and a released
11 position where movement of the article is permitted.

1 33. The kit of Claim 32, wherein the rail member includes a plurality of
2 projections disposed within the partially enclosed space.

1 34. The kit of Claim 33, wherein the rail member includes a plurality of
2 projections only on a single side of the rail member.

1 35. The kit of Claim 32, further comprising a glide member adapted to
2 interface between the bracket and the surface.

1 36. The kit of Claim 32, wherein the glide member is non-rotational.

1 37. The kit of Claim 32, further comprising a conductive strip adapted for
2 coupling to the rail member.

1 38. The kit of Claim 32, further comprising an end piece adapted to couple
2 to an end of the rail member.

1 39. The kit of Claim 32, further comprising a biasing device adapted to bias
2 the positioning device in a self-correcting direction.

1 40. The kit of Claim 32, wherein the article is one of a storage bin, a
2 compartment, a cargo management device, a holder, an article mounting bracket, a
3 storage rack, an article carrier, a child safety seat, a jump seat, a storage platform, a
4 table, a recreational item, or a sporting good.

1 41. The kit of Claim 32, wherein the rail member is a plurality of rail
2 member segments adapted to be selectively coupled and uncoupled.

1 42. A method of providing an article attachment system for use in a vehicle
2 interior, the method comprising:

3 providing a rail member adapted for coupling to the vehicle, the rail
4 member defining a partially enclosed space having a surface;

5 providing a bracket adapted to receive an article and adapted to
6 engage the surface;

7 coupling a positioning device to the bracket, the positioning device
8 adapted for movement between an engaged position where the positioning device
9 engages the rail member and a released position where the positioning device is
10 substantially free of engagement from the rail member; and

11 coupling the article to the rail member.

1 43. The method of Claim 42, wherein the surface provides a slideable
2 interface with the bracket.

1 44. The method of Claim 42, wherein the surface provides a rotational
2 interface with the bracket.

1 45. The method of Claim 42, wherein the surface provides a fixed interface
2 with the bracket.

1 46. The method of Claim 42, further comprising the step of providing a
2 biasing device adapted to urge the positioning device into the engaged position.

1 47. The method of Claim 42, further comprising the step of providing a trim
2 portion adapted to couple to the rail member.

1 48. The method of Claim 42, further comprising the step of providing an
2 actuator adapted to move the positioning device between the engaged position and
3 the released position.

1 49. The method of Claim 42, further comprising the step of providing an
2 electrification system adapted to couple to the rail member for providing electricity
3 from a vehicle electricity source to the article.

1 50. A system for removably attaching one or more articles to a vehicle
2 portion, comprising:

3 means for providing an elongated rail member having a partially
4 concealed space;

5 means for coupling the elongated rail member to the vehicle portion;

6 means for mounting an article to the elongated rail member;

7 means for releasably securing the article in plurality of positions on the
8 elongated rail member.

1 51. The system of Claim 50, wherein the vehicle portion is a vehicle interior
2 portion.

1 52. The system of Claim 50, wherein the vehicle portion is a vehicle
2 exterior portion.

1 53. The system of Claim 52, wherein the vehicle exterior portion is a cargo
2 storage area.

1 54. The system of Claim 50, further comprising means for moving the
2 article relative to the elongated rail member.

1 55. The system of Claim 50, further comprising means for slideably moving
2 the article relative to the elongated rail member.

1 56. The system of Claim 50, further comprising means for providing
2 electricity from a vehicle electrical source to the article.